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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/815,013	03/31/2004	Ronald S. Cok	87893AJA	9204	
7590 05/22/2006			EXAMINER		
Paul A. Leipold			LEPISTO, RYAN A		
Patent Legal Staff Eastman Kodak Company			ART UNIT	PAPER NUMBER	
343 State Street			2883		
Rochester, NY 14650-2201			DATE MAILED: 05/22/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/815,013	COK ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Ryan Lepisto	2883	
Period f	The MAILING DATE of this communication aport Reply	ppears on the cover sheet wi	th the correspondence ac	Idress
WHIO - Exte afte - If No - Fail Any	HORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING I ensions of time may be available under the provisions of 37 CFR 1 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory perioure to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mail ned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a red d will apply and will expire SIX (6) MON ute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this c ANDONED (35 U.S.C. § 133).	
Status				
•	, —	nis action is non-final. vance except for formal matte		e merits is
Disposit	tion of Claims			
5) □ 6) ⊠ 7) □ 8) □ Applicat 9) □ 10) ⊠	Claim(s) 8-14 and 20-29 is/are pending in the 4a) Of the above claim(s) 8-14 and 27-29 is/a Claim(s) is/are allowed. Claim(s) 20-26 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and tion Papers The specification is objected to by the Examination The drawing(s) filed on 31 March 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination of the correct that one of t	are withdrawn from consideration of the consideration requirement. ner. a) accepted or b) objusted the drawing(s) be held in abeyant ection is required if the drawing(s)	ected to by the Examine ce. See 37 CFR 1.85(a). (s) is objected to. See 37 C	FR 1.121(d).
Priority	under 35 U.S.C. § 119			
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents. Certified copies of the priority documents. Copies of the certified copies of the priority application from the International Bure. See the attached detailed Office action for a list.	nts have been received. nts have been received in A iority documents have been au (PCT Rule 17.2(a)).	pplication No received in this National	Stage
Attachmer	nt(s) ce of References Cited (PTO-892)	4) ☐ Interview S	summary (PTO-413)	

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

Paper No(s)/Mail Date _

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date. ___

6) Other: _____.

5) Notice of Informal Patent Application (PTO-152)

Art Unit: 2883

DETAILED ACTION

Election/Restrictions

1. Applicant did not receive an action on the merits last action and therefore the claims 23-26 will be considered below.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 20-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Ferm et al (US 5,657,408) (Ferm). Ferm teaches an integrated linear array of molded light-conductive pipes (Figs. 1-8, 11, 15) comprising light pipes (18) having an input face (14) and an output face (16) connected by an elongated body (18) of light-conductive transparent plastic like polycarbonate (column 8 lines 9-15) (and can include inhomogeneities that change the refractive index of the material, column 9 lines 10-14) and integral alignment features (the input and output face shape) being either a circle, square, hexagon, ellipse or rectangle (column 3 lines 22-24) so as to be able to align and fit together to maximize the fill factor (column 5 lines 10-20). The pipes are then stacked to in a faceplate configuration to create of flat-panel display (Figs. 11, 15 for example, abstract, column 1 lines 11-23, column 14 lines 31-35). With regard to the

Art Unit: 2883

process of forming the pipes in the steps a through d, only structural limitations are considered in product claims and have been anticipated as described above.

"[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985) (citations omitted)

The structure implied by the process steps should be considered when assessing the patentability of product-by-process claims over the prior art, especially where the product can only be defined by the process steps by which the product is made, or where the manufacturing process steps would be expected to impart distinctive structural characteristics to the final product. See, e.g., In re Garnero, 412 F.2d 276, 279, 162 USPQ 221, 223 (CCPA 1979).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/815,013

Art Unit: 2883

3. Claims 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fern as applied to claims 20-24 above, and further in view of Border et al (US 6,441,077 B1) (Border).

Fern teaches the pipes described above.

Fern does not teach expressly the plastic being an optical nanocomposite derivative of a plastic that has been modified with inorganic material to increase the refractive index.

Border teaches an optical nanocomposite derivative of a plastic that has been modified with inorganic material to increase the refractive index (column 4 line 17 – column 5 lines 55).

Fern and Border are analogous art because they are from the same field of endeavor, optical elements using polymer materials and inhomogeneities in the material to change the refractive index.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use the nanocomposite inorganic modifier in the plastic material as taught by Border in the plastic material taught by Fern since both teach a base of polycarbonate (Fern column 8 line 13, Border column 5 line 18) and since Fern teaches using inhomogeneities in the material to change the refractive index.

The motivation for doing so would have been increase focusing of the light by increasing the divergence of light from the output of the waveguide (Fern, column 9 lines 12-13) and decrease temperature sensitivity by using temperature compensating materials (Border, column 3 lines 10-15).

Application/Control Number: 10/815,013

Art Unit: 2883

Response to Arguments

Page 5

4. Applicant's arguments with respect to rejected claims have been considered but are most in view of the new ground(s) of rejection.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Lepisto whose telephone number is (571) 272-1946. The examiner can normally be reached on M-Th 7:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ryan Lepisto

Frank Font

Art Unit 2883

Supervisory Patent Examiner

Frank & Fort

Date: 5/9/06

Technology Center 2800